CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Satalite Town Sub Division,
BBMP, Bangalore-27.

05th March 2015

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of Flagging Course and Covering slabs to Existing drains and Asphalting to roads in Judicial layout in ward no.04.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE,Yelahanka Satalite Town Sub Division, BBMP
Name of Work	Construction of Flagging Course and Covering slabs to Existing drains and Asphalting to roads in Judicial layout in ward no.04.
Name of the Agency	Sri. H. Suresh
Date of Testing	05/03/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	488	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	4	mm	Not More Than 10 mm	Satisfies Requirement

AE L4

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE,Yelahanka Satalite Town Sub Division, BBMP
Name of Work	Construction of Flagging Course and Covering slabs to Existing drains and Asphalting to roads in Judicial layout in ward no.04.
Name of the Agency	Sri. H. Suresh
Date of Testing	05/03/2015
Specific Gravity	**2.55**

Sample	**IS Sieve designation (mm)**	**Sieve Analysis (% Passing IS Sieve)**	**Grading Requirement as per IS:383-1970**				**Grading Zone**
			ZONE-I	**ZONE-II**	**ZONE-III**	**ZONE-IV**	
River Sand	10	**100**	100	100	100	100	**II**
	4.75	**98.3**	90-100	90-100	90-100	95-100	
	2.36	**83.4**	60-95	75-100	85-100	95-100	
	1.18	**76.2**	30-70	55-90	75-100	90-100	
	0.6	**45.3**	15-34	35-59	60-79	80-100	
	0.3	**24.1**	5-20	8-30	12-40	15-50	
	0.15	**8.3**	0-10	0-10	0-10	0-15	

Note:

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AE 4.4

Lab Incharge
Civil Tech labs

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	6.90	**6.80**	When three samples are tested the average water absorption shall not be more than 10% by mass
2		6.80		
3		6.70		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	1863.8	**1863.7**	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m³
2		1864.2		
3		1863.1		

Remarks	Satisfies the Requirements.

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TEST REPORT
TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka Satalite Town Sub Division, BBMP
Name of Work	Construction of Flagging Course and Covering slabs to Existing drains and Asphalting to roads in Judicial layout in ward no.04.
Name of the Agency	Sri. H. Suresh
Date of Testing	05/03/2015
Technical Reference	IS: 2185(Part-I)-2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm²)	Minimum Compressive Strength as per IS: 2185(Part-I)-2005 (Reaffirmed 2010)	
			Individual	Avg. of 8 samples
1	40x20x20	4.4	Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
2		4.2		
3		4.1		
4		4.3		
5		4.2	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
6		4.1		
7		4.2		
8		4.3		
Average Compressive strength (N/mm²)		**4.2**		

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T-2654

To,

Assistant Executive Engineer
Yelahanka Satalite Town Sub Division,
BBMP.

15th April 2015

Dear Sir,

Sub: Construction of Flagging Course and Covering slabs to Existing drains and Asphalting to roads in Judicial layout in ward no.04.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Satalite Town Sub Division, BBMP
Name of Work	Construction of Flagging Course and Covering slabs to Existing drains and Asphalting to roads in Judicial layout in ward no.04.
Name of Agency	Sri. H. Suresh
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Precast Slabs)	18/03/2015	15/04/2015	28	8.16	475	**21.11**	**21.33**
2					8.17	480	**21.33**	
3					8.18	485	**21.56**	

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AE W-4

Lab Incharge
Civil Tech Labs

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